

Serial No. 07/032,041
Reply to Office Action of 05/27/2004

REMARKS

Responsive to the Office Action mailed May 27, 2004, Applicants have studied the Examiner's comments and the cited art. Claims 56-58, 60-62, 65, 88-93 and 98-99 are currently pending. In view of the following remarks, Applicants respectfully submit that the application is in condition for allowance.

All pending claims were rejected under 35 U.S.C. § 112, first paragraph for naming various elements from which it has been said no superconducting composition can be obtained. The independent claims which remain pending are claims 56, 88 and 93. All independent claims have been amended to delete from the elements listed for L the objectionable elements of Sc, Ce, Pr, Tb; to delete from the element listed for M the objectionable elements of Ca, Mg, Hg; to delete from the elements listed for A the objectionable elements of Bi, Ti, W, Zr, Ta, Nb and V. Not deleted as an M element is Sr. In this respect attention is directed to U.S. Patent 6,635,603 (copy enclosed) and Example 4 of the Table at column 8 thereof showing $Y(Ba_{1.5}Sr_{0.5})Cu_3O_{9.5}$ as superconducting at $T_c=87K$. This disproves Dr. Engler's assertions as respects Sr not being a useful element as the M constituent of a superconductor.

By the above-discussed amendment it is believed that the 35 U.S.C. § 112 rejection has been overcome, and there being no further basis for rejection of claims 56-58, 60-62, 65, 88-93 and new claims 98-99, the claims should now be allowed.

The rejection of claims 29-41, 51, 52 and 76 under 35 U.S.C. § 112, first paragraph is now moot in view of the cancellation of these claims.

The rejection of claims 35-46 under 35 U.S.C. § 112, second paragraph is now moot in view of the cancellation of these claims.

The rejection of claims 35-46 and 67-68 under 35 U.S.C. § 102(a)1(b) and/or § 103(a) over Bednorz et al. or Michel is now moot in view of the cancellation of these claims.

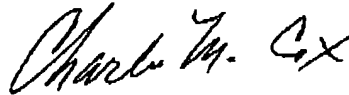
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CONCLUSION

Applicants respectfully submit that all issues and rejections have been adequately addressed, that all claims are allowable, and that the case should be advanced to issuance.

If the Examiner has any questions or wishes to discuss the claims, Applicants encourage the Examiner to call the undersigned at the telephone number indicated below.

Respectfully submitted



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